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INVENTOR SEARCH

=> d ibib abs hitstr 16 1-3

L6 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:726752 HCAPLUS Full-text

DOCUMENT NUMBER: 147:111976

TITLE: Reversine increases the plasticity of lineage-committed mammalian cells

AUTHOR(S): Chen, Shuibing; Takanashi, Shinichi; Zhang, Qisheng; Xiong, Wen; Zhu, Shoutian; Peters, Eric C.; Ding, Sheng; Schultz, Peter G.

CORPORATE SOURCE: Department of Chemistry and the Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (2007), 104(25), 10482-10487
CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Previously, a small mol., reversine, was identified that reverses lineage-committed murine myoblasts to a more primitive multipotent state. Here, we show that reversine can increase the plasticity of C2C12 myoblasts at the single-cell level and that reversine-treated cells gain the ability to differentiate into osteoblasts and adipocytes under lineage-specific inducing conditions. Moreover, reversine is active in multiple cell types, including 3T3E1 osteoblasts and human primary skeletal myoblasts. Biochem. and cellular expts. suggest that reversine functions as a dual inhibitor of nonmuscle myosin II heavy chain and MEK1, and that both activities are required for reversine's effect. Inhibition of MEK1 and nonmuscle myosin II heavy chain results in altered cell cycle and changes in histone acetylation status, but other factors also may contribute to the activity of reversine, including activation of the PI3K signaling pathway.

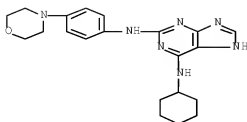
IT 656820-32-5, Reversine

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(reversine increases plasticity of lineage-committed mammalian cells)

RN 656820-32-5 HCAPLUS

CN 9H-Purine-2,6-diamine, N6-cyclohexyl-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 2005:451560 HCAPLUS Full-text
 DOCUMENT NUMBER: 142:478415
 TITLE: Compositions and methods for inducing cell dedifferentiation
 INVENTOR(S): Chen, Shuibing; Ding, Sheng; Schultz, Peter G.
 PATENT ASSIGNEE(S): The Scripps Research Institute, USA
 SOURCE: PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005047524	A2	20050526	WO 2004-US37686	20041110
WO 2005047524	A3	20051229		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 20050176707	A1	20050811	US 2004-985645	20041110
EP 1682150	A2	20060726	EP 2004-800997	20041110
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU			
JP 2007510752	T	20070426	JP 2006-539866	20041110
US 20070254884	A1	20071101	US 2007-577191	20070227
PRIORITY APPLN. INFO.:			US 2003-518947P	P 20031110
			WO 2004-US37686	W 20041110

OTHER SOURCE(S): MARPAT 142:478415
 AB The present invention provides compns. and methods for dedifferentiating lineage committed mammalian cells.
 IT 91-19-0D, Quinoxaline, derivs. 120-73-0D, Purine, derivs. 253-52-1D, Phthalazine, derivs. 253-82-7D, Quinazoline, derivs. 289-80-5D, Pyridazine, derivs.

289-95-2D, Pyrimidine, derivs. 290-37-9D, Pyrazine,
derivs.

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(compos. and methods for inducing cell dedifferentiation)

RN 91-19-0 HCAPLUS

CN Quinoxaline (CA INDEX NAME)



RN 120-73-0 HCAPLUS

CN 9H-Purine (CA INDEX NAME)



RN 253-52-1 HCAPLUS

CN Phthalazine (CA INDEX NAME)



RN 253-82-7 HCAPLUS

CN Quinazoline (CA INDEX NAME)



RN 289-80-5 HCAPLUS

CN Pyridazine (CA INDEX NAME)



RN 289-95-2 HCAPLUS

CN Pyrimidine (CA INDEX NAME)



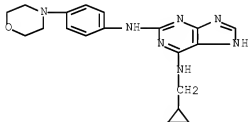
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CN Pyrazine (CA INDEX NAME)



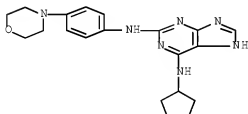
IT 325167-28-0 325167-35-9 709609-12-1
852231-90-4 852231-92-6 852231-94-8
852231-96-0 852231-98-2 852232-01-0
852232-03-2 852232-05-4 852232-07-6
852232-11-2 852232-13-4
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)

(comps. and methods for inducing cell dedifferentiation)

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(CA INDEX NAME)

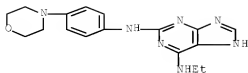


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INDEX NAME)



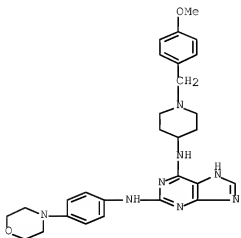
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CN 9H-Purine-2,6-diamine, N6-ethyl-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX

NAME)



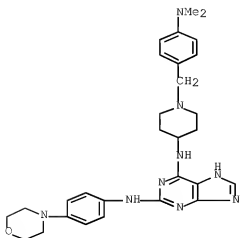
RN 852231-90-4 HCAPLUS

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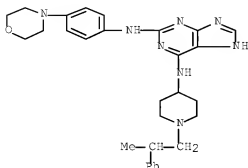
RN 852231-92-6 HCAPLUS

CN 9H-Purine-2,6-diamine, N6-[1-[[4-(dimethylamino)phenyl]methyl]-4-piperidinyl]-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



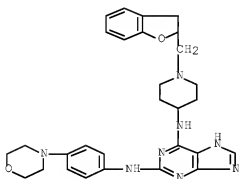
RN 852231-94-8 HCAPLUS

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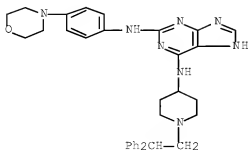
RN 852231-96-0 HCAPLUS

CN 9H-Purine-2,6-diamine, N6-[1-[(2,3-dihydro-2-benzofuranyl)methyl]-4-piperidinyl]-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



RN 852231-98-2 HCAPLUS

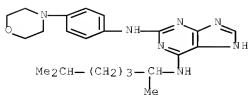
CN 9H-Purine-2,6-diamine, N6-[1-(2,2-diphenylethyl)-4-piperidinyl]-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



RN 852232-01-0 HCAPLUS

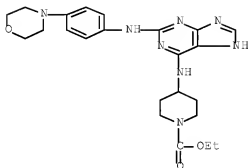
CN 9H-Purine-2,6-diamine, N6-[1,5-dimethylhexyl]-N2-[4-(4-morpholinyl)phenyl]-

(CA INDEX NAME)



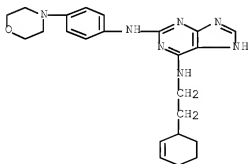
RN 852232-03-2 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[2-[[4-(4-morpholinyl)phenyl]amino]-9H-purin-6-yl]amino]-, ethyl ester (CA INDEX NAME)



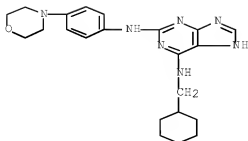
RN 852232-05-4 HCAPLUS

CN 9H-Purine-2,6-diamine, N6-[2-(2-cyclohexen-1-yl)ethyl]-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



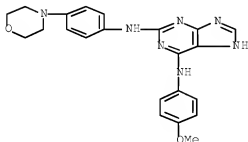
RN 852232-07-6 HCAPLUS

CN 9H-Purine-2,6-diamine, N6-(cyclohexylmethyl)-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



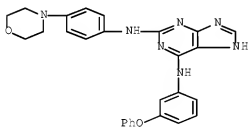
RN 852232-11-2 HCAPLUS

CN 9H-Purine-2,6-diamine, N6-(4-methoxyphenyl)-N2-[4-(4-morpholinyl)phenyl]-
(CA INDEX NAME)



RN 852232-13-4 HCAPLUS

CN 9H-Purine-2,6-diamine, N2-[4-(4-morpholinyl)phenyl]-N6-(3-phenoxyphenyl)-
(CA INDEX NAME)



IT 108-91-8, Cyclohexylamine, reactions 1651-29-2,
2-Fluoro-6-chloropurine 2524-67-6, 4-Morpholinoaniline

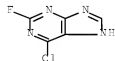
RL: RCT (Reactant); RACT (Reactant or reagent)
(comps. and methods for inducing cell dedifferentiation)

RN 108-91-8 HCAPLUS

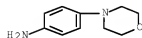
CN Cyclohexanamine (CA INDEX NAME)



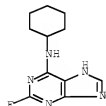
RN 1651-29-2 HCAPLUS
 CN 9H-Purine, 6-chloro-2-fluoro- (CA INDEX NAME)



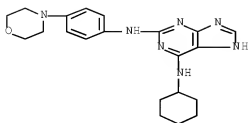
RN 2524-67-6 HCAPLUS
 CN Benzenamine, 4-(4-morpholinyl)- (CA INDEX NAME)



IT 852231-88-0P, 2-Fluoro-6-cyclohexylamino-purine
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (comps. and methods for inducing cell dedifferentiation)
 RN 852231-88-0 HCAPLUS
 CN 9H-Purin-6-amine, N-cyclohexyl-2-fluoro- (CA INDEX NAME)

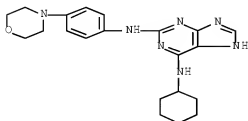


IT 656820-32-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (comps. and methods for inducing cell dedifferentiation)
 RN 656820-32-5 HCAPLUS
 CN 9H-Purine-2,6-diamine, N6-cyclohexyl-N2-[4-(4-morpholinyl)phenyl]- (CA
 INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

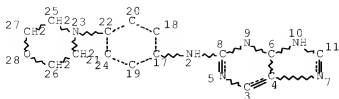
L6 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 2003:996204 HCAPLUS Full-text
 DOCUMENT NUMBER: 140:160988
 TITLE: Dedifferentiation of Lineage-Committed Cells by a Small Molecule
 AUTHOR(S): Chen, Shuibing; Zhang, Qisheng; Wu, Xu; Schultz, Peter G.; Ding, Sheng
 CORPORATE SOURCE: Department of Chemistry and the Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
 SOURCE: Journal of the American Chemical Society (2004), 126(2), 410-411
 CODEN: JACSAT; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Combinatorial libraries were screened for mols. that induce mouse myogenic lineage committed cells to dedifferentiate in vitro. A 2,6-disubstituted purine, reversine, was discovered that induces lineage reversal of C2C12 cells to become multipotent progenitor cells which can redifferentiate into osteoblasts and adipocytes. This and other such mols. are likely to provide new insights into the mol. mechanisms that control cellular dedifferentiation and may ultimately be useful to in vivo stem cell biol. and therapy.
 IT 656820-32-5, Reversine
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (dedifferentiation of lineage-committed cells by small mol. reversine)
 RN 656820-32-5 HCAPLUS
 CN 9H-Purine-2,6-diamine, N6-cyclohexyl-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RESULTS FROM REGISTRY, CAPLUS, AND USPATFULL

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=> d que stat 126
L16          STR
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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ELEVEL IS LIMITED
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GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 22
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STEREO ATTRIBUTES: NONE
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L25      1 SEA FILE=USPATFULL ABB=ON  L23
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L26 ANSWER 1 OF 2  USPATFULL on STN
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ACCESSION NUMBER: 2003:184082  USPATFULL  Full-text
TITLE:            Purine derivatives inhibitors of tyrosine protein
                  kinase SYK
INVENTOR(S):      Collingwood, Stephen Paul, Horsham, UNITED KINGDOM
                  Hayler, Judy, Horsham, UNITED KINGDOM
                  Le Grand, Darren Mark, Horsham, UNITED KINGDOM
                  Mattes, Henri, Brunstatt, FRANCE
                  Menear, Keith Allan, Horsham, UNITED KINGDOM
                  Walker, Clive Victor, Horsham, UNITED KINGDOM
                  Cockcroft, Xiao-Ling, Horsham, UNITED KINGDOM
PATENT ASSIGNEE(S): Novartis AG, Basel, SWITZERLAND (non-U.S. corporation)
```

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6589950	B1	20030708
	WO 2001009134		20010208
	US 2002-48577		20020319 (10)
APPLICATION INFO.:	WO 2000-EF7311		20000728

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1999-18035	19990730
DOCUMENT TYPE:	Utility	

FILE SEGMENT: GRANTED
 PRIMARY EXAMINER: Berch, Mark L.
 LEGAL REPRESENTATIVE: Lopez, Gabriel, Dohmann, George R.
 NUMBER OF CLAIMS: 12
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
 LINE COUNT: 1895
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Disclosed are compounds of the formula ##STR1##

in free or salt form, wherein X, R.sup.1, R.sup.2, R.sup.3, and R.sup.4 are as defined in the specification, their preparation and their use as pharmaceuticals, particularly for the treatment of inflammatory or obstructive airways disease.

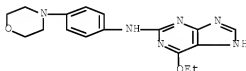
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 325166-09-4P 325166-51-6P 325166-64-1P

(target compound; preparation of anilino purine tyrosine protein kinase syk inhibitors by addition of anilines and amines, alcs., or thiols to dichloropurines)

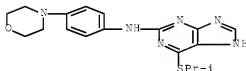
RN 325166-09-4 USPATFULL

CN 9H-Purin-2-amine, 6-ethoxy-N-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



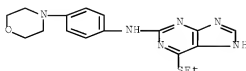
RN 325166-51-6 USPATFULL

CN 9H-Purin-2-amine, 6-[(1-methylethyl)thio]-N-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



RN 325166-64-1 USPATFULL

CN 9H-Purin-2-amine, 6-(ethylthio)-N-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)

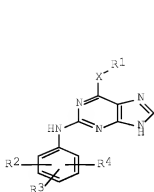


L26 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2001:101141 HCAPLUS Full-text
 DOCUMENT NUMBER: 134:163051
 TITLE: Preparation of anilinopurine derivatives as inhibitors
 of tyrosine protein kinase syk
 INVENTOR(S): Collingwood, Stephen Paul; Hayler, Judy; Le Grand,
 Darren Mark; Mattes, Henri; Menear, Keith Allan;
 Walker, Clive Victor; Cockcroft, Xiao-ling
 PATENT ASSIGNEE(S): Novartis Ag, Switz.; Novartis-Erfindungen
 Verwaltungsgesellschaft M.B.H.
 SOURCE: PCT Int. Appl., 70 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

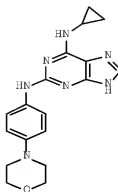
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001009134	A1	20010208	WO 2000-EP7311	20000728
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CA 2379560	A1	20010208	CA 2000-2379560	20000728
BR 2000012888	A	20020409	BR 2000-12888	20000728
EP 1200435	A1	20020502	EP 2000-953112	20000728
EP 1200435	B1	20031001		
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AT 251160	T	20031015	AT 2000-953112	20000728
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PT 1200435	T	20040227	PT 2000-953112	20000728
NZ 516667	A	20040528	NZ 2000-516667	20000728
ES 2208395	T3	20040616	ES 2000-953112	20000728
RU 2248977	C2	20050327	RU 2002-103305	20000728
CN 1213047	C	20050803	CN 2000-811026	20000728
SK 285730	B6	20070706	SK 2002-126	20000728
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ZA 2002000783	A	20030212	ZA 2002-783	20020129
MX 2002001102	A	20020820	MX 2002-1102	20020130
US 6589950	B1	20030708	US 2002-48577	20020319
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PRIORITY APPLN. INFO.:			GB 1999-18035	A 19990730
			JP 2001-514337	A3 20000728
			WO 2000-EP7311	W 20000728

OTHER SOURCE(S): MARPAT 134:163051

GI



I



II

AB The title compds. (I) [wherein X = O, S, or NR₅; R₁ = (un)substituted (cyclo)alkyl, alkenyl, benzocycloalkyl, cycloalkylalkyl, or aralkyl; R₂, R₃, and R₄ = independently H, halo, (halo)alkyl, alkoxy, carboxy, alkoxycarbonyl(alkyl), carboxyalkyl, or (un)substituted amino, sulfamoyl(alkyl), or carbamoyl; or two of R₂, R₃, and R₄ form a carbocyclic or heterocyclic ring together with the C atoms to which they are attached; R₅ = H or alkyl] in free or salt form were prepared for use as pharmaceuticals, particularly for the treatment of inflammatory or obstructive airways disease. For example, cyclopropylamine and N,N-diisopropylethylamine were added to 2,6-dichloropurine in n-BuOH to give 6-cyclopropylamino-2-chloropurine. The chloropurine was stirred with 4-morpholinoaniline in the presence of N,N-diisopropylethylamine in NMP at 130°C for 48 h to give II, which inhibited phosphorylation by syk kinase with an IC₅₀ of 9 nM.

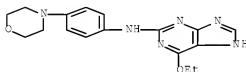
IT 325166-09-4P 325166-51-6P 325166-64-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(target compound; preparation of anilinopurine tyrosine protein kinase syk inhibitors by addition of anilines and amines, alcs., or thiols to dichloropurines)

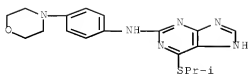
RN 325166-09-4 HCAPLUS

CN 9H-Purin-2-amine, 6-ethoxy-N-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



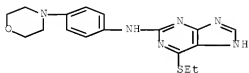
RN 325166-51-6 HCAPLUS

CN 9H-Purin-2-amine, 6-[(1-methylethyl)thio]-N-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



RN 325166-64-1 HCAPLUS

CN 9H-Purin-2-amine, 6-(ethylthio)-N-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



REFERENCE COUNT:

14

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

SEARCH HISTORY

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(FILE 'HOME' ENTERED AT 17:08:15 ON 06 MAR 2009)

FILE 'HCAPLUS' ENTERED AT 17:08:30 ON 06 MAR 2009

FILE 'HCAPLUS' ENTERED AT 17:08:43 ON 06 MAR 2009

E CHEN SHUIBING/AU
 L1 14 SEA ABB=ON "CHEN SHUIBING"/AU
 E DING SHENG/AU
 L2 126 SEA ABB=ON "DING SHENG"/AU
 E SCHULTZ PETER G/AU
 L3 475 SEA ABB=ON "SCHULTZ PETER G"/AU
 L4 5 SEA ABB=ON L1 AND L2 AND L3
 SELECT RN L4 4

FILE 'REGISTRY' ENTERED AT 17:09:53 ON 06 MAR 2009

L5 26 SEA ABB=ON (108-91-8/BI OR 120-73-0/BI OR 1651-29-2/BI OR
 2524-67-6/BI OR 253-52-1/BI OR 253-82-7/BI OR 289-80-5/BI OR
 289-95-2/BI OR 290-37-9/BI OR 325167-28-0/BI OR 325167-35-9/BI
 OR 656820-32-5/BI OR 709609-12-1/BI OR 852231-88-0/BI OR
 852231-90-4/BI OR 852231-92-6/BI OR 852231-94-8/BI OR 852231-96
 -0/BI OR 852231-98-2/BI OR 852232-01-0/BI OR 852232-03-2/BI OR
 852232-05-4/BI OR 852232-07-6/BI OR 852232-11-2/BI OR 852232-13
 -4/BI OR 91-19-0/BI)

FILE 'HCAPLUS' ENTERED AT 17:10:00 ON 06 MAR 2009

L6 3 SEA ABB=ON L4 AND L5
 D TI 1-3
 D IBIB ABS HITSTR L6 2

FILE 'REGISTRY' ENTERED AT 17:11:50 ON 06 MAR 2009

L7 STRUCTURE 325167-35-9
 L8 3 SEA SSS SAM L7
 D SCAN
 L9 STR L7
 L10 3 SEA SSS SAM L9
 L11 139 SEA SSS FUL L9
 L12 STR L9
 L13 STR L9
 L14 0 SEA SSS SAM L13
 L15 0 SEA SSS FUL L13
 L16 STR L13
 L17 3 SEA SSS SAM L16
 L18 131 SEA SSS FUL L16
 L19 17 SEA ABB=ON L18 AND N=6
 L20 10 SEA ABB=ON L19 AND O=1
 L21 0 SEA ABB=ON L20 AND C=15
 D L20 1-10
 L22 15 SEA ABB=ON L18 AND NR=4 AND NRS=3
 L23 3 SEA ABB=ON L22 AND N=6

FILE 'HCAPLUS' ENTERED AT 17:28:01 ON 06 MAR 2009

L24 1 SEA ABB=ON L23

L25 FILE 'USPATFULL' ENTERED AT 17:28:12 ON 06 MAR 2009
1 SEA ABB=ON L23

L26 FILE 'HCAPLUS, USPATFULL' ENTERED AT 17:28:25 ON 06 MAR 2009
2 DUP REMOV L24 L25 (0 DUPLICATES REMOVED)

FILE HOME

FILE HCAPLUS

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 5 Mar 2009 (20090305/PD)
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HIGHEST APPLICATION PUBLICATION NUMBER: US20090064384

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